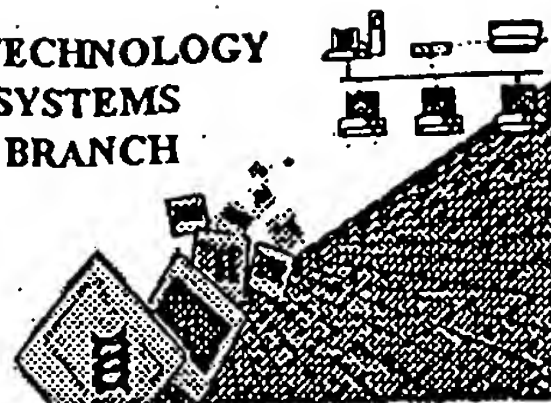


BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/086,748
Source: FW/6
Date Processed by STIC: 11/10/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)

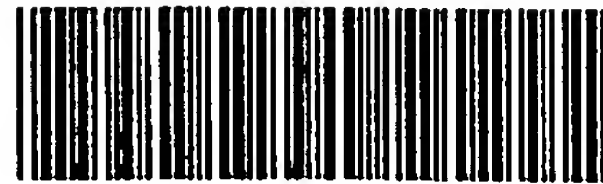
~~2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450~~

3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby,
Room 1B03, Arlington, VA 22202

Revised 05/17/04

Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	SERIAL NUMBER: <u>10/086,748</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <u> </u> Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <u> </u> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <u> </u> Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <u> </u> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <u> </u> Variable Length	Sequence(s) <u> </u> contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <u> </u> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) <u> </u> . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <u> </u> Skipped Sequences (OLD RULES)	Sequence(s) <u> </u> missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO: X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION: SEQ ID NO: X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <u> </u> Skipped Sequences (NEW RULES)	Sequence(s) <u> </u> missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <u> </u> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <u> </u> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <u> </u> Use of <220>	Sequence(s) <u> </u> missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <u> </u> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <u> </u> Misuse of n/Xaa	"n" can only represent a single <u>nucleotide</u> ; "Xaa" can only represent a single <u>amino acid</u>	



IFW16

RAW SEQUENCE LISTING

DATE: 11/10/2004

PATENT APPLICATION: US/10/086,748

TIME: 16:29:47

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt

Output Set: N:\CRF4\11102004\J086748.raw

3 <110> APPLICANT: Wolber, Paul
 5 <120> TITLE OF INVENTION: Calibration of Molecular Array Data
 7 <130> FILE REFERENCE: 10020405-1
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/086,748
 C--> 9 <141> CURRENT FILING DATE: 2002-02-28
 9 <160> NUMBER OF SEQ ID NOS: 29
 11 <170> SOFTWARE: PatentIn version 3.3
 13 <210> SEQ ID NO: 1
 14 <211> LENGTH: 20
 15 <212> TYPE: DNA
 16 <213> ORGANISM: artificial sequence;
 18 <220> FEATURE:
 19 <223> OTHER INFORMATION: artificial sequence
 21 <400> SEQUENCE: 1
 22 aaaaaaaaaa aaaaaatctc
 25 <210> SEQ ID NO: 2
 26 <211> LENGTH: 21
 27 <212> TYPE: DNA
 28 <213> ORGANISM: artificial sequence;
 30 <220> FEATURE:
 31 <223> OTHER INFORMATION: artificial sequence
 33 <400> SEQUENCE: 2
 34 aaaaaaaaaa aaaaaatctc c
 37 <210> SEQ ID NO: 3
 38 <211> LENGTH: 22
 39 <212> TYPE: DNA
 40 <213> ORGANISM: artificial sequence;
 42 <220> FEATURE:
 43 <223> OTHER INFORMATION: artificial sequence
 45 <400> SEQUENCE: 3
 46 aaaaaaaaaa aaaaaatctc cc
 49 <210> SEQ ID NO: 4
 50 <211> LENGTH: 23
 51 <212> TYPE: DNA
 52 <213> ORGANISM: artificial sequence;
 54 <220> FEATURE:
 55 <223> OTHER INFORMATION: artificial sequence
 57 <400> SEQUENCE: 4
 58 aaaaaaaaaa aaaaaatctc cca
 61 <210> SEQ ID NO: 5
 62 <211> LENGTH: 23
 63 <212> TYPE: DNA
 64 <213> ORGANISM: artificial sequence;

Does Not Comply
 Corrected Diskette Needed

insufficient explanation - give
 source of genetic material (see item 11
 on Error
 summary
 sheet)

21

22

23

RAW SEQUENCE LISTING

DATE: 11/10/2004

PATENT APPLICATION: US/10/086,748

TIME: 16:29:47

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt

Output Set: N:\CRF4\11102004\J086748.raw

66 <220> FEATURE:
 67 <223> OTHER INFORMATION: artificial sequence
 69 <400> SEQUENCE: 5
 70 aaaaaaaaaa aaaaaaatc tcc 23
 73 <210> SEQ ID NO: 6
 74 <211> LENGTH: 24
 75 <212> TYPE: DNA
 76 <213> ORGANISM: artificial sequence;
 78 <220> FEATURE:
 79 <223> OTHER INFORMATION: artificial sequence
 81 <400> SEQUENCE: 6
 82 aaaaaaaaaa aaaaaatctc ccaa 24
 85 <210> SEQ ID NO: 7
 86 <211> LENGTH: 24
 87 <212> TYPE: DNA
 88 <213> ORGANISM: artificial sequence;
 90 <220> FEATURE:
 91 <223> OTHER INFORMATION: artificial sequence
 93 <400> SEQUENCE: 7
 94 aaaaaaaaaa aaaaaaatc tccc 24
 97 <210> SEQ ID NO: 8
 98 <211> LENGTH: 25
 99 <212> TYPE: DNA
 100 <213> ORGANISM: artificial sequence;
 102 <220> FEATURE:
 103 <223> OTHER INFORMATION: artificial sequence
 105 <400> SEQUENCE: 8
 106 aaaaaaaaaa aaaaaatctc ccaa 25
 109 <210> SEQ ID NO: 9
 110 <211> LENGTH: 25
 111 <212> TYPE: DNA
 112 <213> ORGANISM: artificial sequence;
 114 <220> FEATURE:
 115 <223> OTHER INFORMATION: artificial sequence
 117 <400> SEQUENCE: 9
 118 aaaaaaaaaa aaaaaaatc tcca 25
 121 <210> SEQ ID NO: 10
 122 <211> LENGTH: 26
 123 <212> TYPE: DNA
 124 <213> ORGANISM: artificial sequence;
 126 <220> FEATURE:
 127 <223> OTHER INFORMATION: artificial sequence
 129 <400> SEQUENCE: 10
 130 aaaaaaaaaa aaaaaatctc ccaaaa 26
 133 <210> SEQ ID NO: 11
 134 <211> LENGTH: 26
 135 <212> TYPE: DNA
 136 <213> ORGANISM: artificial sequence;
 138 <220> FEATURE:

RAW SEQUENCE LISTING

DATE: 11/10/2004

PATENT APPLICATION: US/10/086,748

TIME: 16:29:47

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt

Output Set: N:\CRF4\11102004\J086748.raw

139 <223> OTHER INFORMATION: artificial sequence

141 <400> SEQUENCE: 11

142 aaaaaaaaaa aaaaaaatc tcccaa

26

145 <210> SEQ ID NO: 12

146 <211> LENGTH: 27

147 <212> TYPE: DNA

148 <213> ORGANISM: artificial sequence

150 <220> FEATURE:

151 <223> OTHER INFORMATION: artificial sequence

153 <400> SEQUENCE: 12

154 aaaaaaaaaa aaaaaaatc tcccaa

27

157 <210> SEQ ID NO: 13

158 <211> LENGTH: 27

159 <212> TYPE: DNA

160 <213> ORGANISM: artificial sequence

162 <220> FEATURE:

163 <223> OTHER INFORMATION: artificial sequence

165 <400> SEQUENCE: 13

166 aaaaaaaaaa aaaaaatctc ccaaaaa

27

169 <210> SEQ ID NO: 14

170 <211> LENGTH: 28

171 <212> TYPE: DNA

172 <213> ORGANISM: artificial sequence

174 <220> FEATURE:

175 <223> OTHER INFORMATION: artificial sequence

177 <400> SEQUENCE: 14

178 aaaaaaaaaa aaaaaaatc tcccaaaa

28

181 <210> SEQ ID NO: 15

182 <211> LENGTH: 28

183 <212> TYPE: DNA

184 <213> ORGANISM: artificial sequence

186 <220> FEATURE:

187 <223> OTHER INFORMATION: artificial sequence

189 <400> SEQUENCE: 15

190 aaaaaaaaaa aaaaaaatc tcccaaaa

28

193 <210> SEQ ID NO: 16

194 <211> LENGTH: 28

195 <212> TYPE: DNA

196 <213> ORGANISM: artificial sequence

198 <220> FEATURE:

199 <223> OTHER INFORMATION: artificial sequence

201 <400> SEQUENCE: 16

202 aaaaaaaaaa aaaaaatctc ccaaaaa

28

205 <210> SEQ ID NO: 17

206 <211> LENGTH: 29

207 <212> TYPE: DNA

208 <213> ORGANISM: artificial sequence

210 <220> FEATURE:

211 <223> OTHER INFORMATION: artificial sequence

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/086,748

DATE: 11/10/2004

TIME: 16:29:47

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt

Output Set: N:\CRF4\11102004\J086748.raw

213 <400> SEQUENCE: 17
214 aaaaaaaaaa aaaaaaatc tcccaaaaaa 29
217 <210> SEQ ID NO: 18
218 <211> LENGTH: 29
219 <212> TYPE: DNA
220 <213> ORGANISM: artificial sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: artificial sequence
225 <400> SEQUENCE: 18
226 aaaaaaaaaa aaaaaaatc ccaaaaaaa 29
229 <210> SEQ ID NO: 19
230 <211> LENGTH: 30
231 <212> TYPE: DNA
232 <213> ORGANISM: artificial sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: artificial sequence
237 <400> SEQUENCE: 19
238 aaaaaaaaaa aaaaaaatc tcccaaaaaa 30
241 <210> SEQ ID NO: 20
242 <211> LENGTH: 30
243 <212> TYPE: DNA
244 <213> ORGANISM: artificial sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: artificial sequence
249 <400> SEQUENCE: 20
250 aaaaaaaaaa aaaaaaatc ccaaaaaaa 30
253 <210> SEQ ID NO: 21
254 <211> LENGTH: 31
255 <212> TYPE: DNA
C--> 256 <213> ORGANISM: artificial sequence;
W--> 258 <220> FEATURE:
W--> 258 <223> OTHER INFORMATION:
W--> 258 <400> 21
259 aaaaaaaaaa aaaaaaatc tcccaaaaaa a 31
262 <210> SEQ ID NO: 22
263 <211> LENGTH: 31
264 <212> TYPE: DNA
265 <213> ORGANISM: artificial sequence
267 <220> FEATURE:
268 <223> OTHER INFORMATION: artificial sequence
270 <400> SEQUENCE: 22
271 aaaaaaaaaa aaaaaaatc ccaaaaaaa a 31
274 <210> SEQ ID NO: 23
275 <211> LENGTH: 32
276 <212> TYPE: DNA
277 <213> ORGANISM: artificial sequence
279 <220> FEATURE:
280 <223> OTHER INFORMATION: artificial sequence
282 <400> SEQUENCE: 23

*Artificial Sequence**mandatory numeric identifier
needed. see p. 6*

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/086,748

DATE: 11/10/2004
TIME: 16:29:47

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt
Output Set: N:\CRF4\11102004\J086748.raw

```

283 aaaaaaaaaa aaaaaaatc tcccaaaaaa aa 32
286 <210> SEQ ID NO: 24
287 <211> LENGTH: 32
288 <212> TYPE: DNA
289 <213> ORGANISM: artificial sequence;
291 <220> FEATURE:
292 <223> OTHER INFORMATION: artificial sequence
294 <400> SEQUENCE: 24
295 aaaaaaaaaa aaaaaatctc ccaaaaaaaa aa 32
298 <210> SEQ ID NO: 25
299 <211> LENGTH: 33
300 <212> TYPE: DNA
301 <213> ORGANISM: artificial sequence;
303 <220> FEATURE:
304 <223> OTHER INFORMATION: artificial sequence
306 <400> SEQUENCE: 25
307 aaaaaaaaaa aaaaaaatc tcccaaaaaa aaa 33
310 <210> SEQ ID NO: 26
311 <211> LENGTH: 33
312 <212> TYPE: DNA
313 <213> ORGANISM: artificial sequence;
315 <220> FEATURE:
316 <223> OTHER INFORMATION: artificial sequence
318 <400> SEQUENCE: 26
319 aaaaaaaaaa aaaaaatctc ccaaaaaaaa aaa 33
322 <210> SEQ ID NO: 27
323 <211> LENGTH: 34
324 <212> TYPE: DNA
325 <213> ORGANISM: artificial sequence;
327 <220> FEATURE:
328 <223> OTHER INFORMATION: artificial sequence
330 <400> SEQUENCE: 27
331 aaaaaaaaaa aaaaaaatc tcccaaaaaa aaaa 34
334 <210> SEQ ID NO: 28
335 <211> LENGTH: 35
336 <212> TYPE: DNA
337 <213> ORGANISM: artificial sequence;
339 <220> FEATURE:
340 <223> OTHER INFORMATION: artificial sequence
342 <400> SEQUENCE: 28
343 aaaaaaaaaa aaaaaaatc tcccaaaaaa aaaaa 35
346 <210> SEQ ID NO: 29
347 <211> LENGTH: 60
348 <212> TYPE: DNA
349 <213> ORGANISM: artificial sequence;
351 <220> FEATURE:
352 <223> OTHER INFORMATION: artificial sequence
354 <400> SEQUENCE: 29
355 ttgattcttt tttaataaac tactctttga tttaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

```

10/086,748 6

<210> SEQ ID NO 21

<211> LENGTH: 31

<212> TYPE: DNA

<213> ORGANISM: Artificial Sequence

<220> FEATURE:

<223> OTHER INFORMATION: :

<400> SEQUENCE: 21

aaaaaaaaaa aaaaaaaatc tcccaaaaaa a

see p. 7 for explanation

31

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/086,748

DATE: 11/10/2004
TIME: 16:29:48

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt
Output Set: N:\CRF4\11102004\J086748.raw

no explanation

Use of <220> Feature(NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings.

Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32) (Sec.1.823 of new Rules)

Seq#:21

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/086,748

DATE: 11/10/2004

TIME: 16:29:48

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt

Output Set: N:\CRF4\11102004\J086748.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:256 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:21
L:258 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:21, <213>
ORGANISM:Artificial Sequence
L:258 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:21, <213>
ORGANISM:Artificial Sequence
L:258 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:21,Line#:258